

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: n4so@juno.com (CHARLES K BROWN)
Subject: [2370] 14.060 QRM
Message-ID: <19960809.191213.4583.0.n4so@juno.com>

Recently I gave the Internet address for Jules CN8CG, who operates a mailbox below
the 14.060 QRP channel -- has anyone received a reply back yet?

Pactor correspondence/messages FOR CN8CG can be sent to S92ZM via VA3VSM and other
Winlink stations forwarding to S92ZM.
N4SO

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Mike Robinson <miker@cc.com>
Subject: [2331] 32SII For sale
Message-ID: <9608091736.AA23157@voder.nsc.com>

Since the subject came up and is apparently
a true QRP subject:

For sale:

HP 32SII RPN Scientific Calculator

Use very little, only the plus and minus key.

Comes with letherette case and Owners Manual.

\$50 shipped in US48.

=====
7.3 de Michael AA0UB miker@cc.com michael@frii.com
 http://www.frii.com/~michael
 QRP-L #126 Norcal #857 CQC #180
=====

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: GREGOIRE@ENDOR.COM (ERNEST GREGOIRE)
Subject: [2304] Adventure Radio Society
Message-ID: <199608091305.JAA47410@nss2.CC.Lehigh.EDU>

Hello Gang,

I have lost track of the guy that started Adventure Radio, the back packing portable radio guys. Can anyone tell me about the group?

73 de AA1IK
Ernie

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Don Bullard <DBULLARD@uga.cc.uga.edu>
Subject: [2376] Argo Digi readout
Message-ID: <960809.221559.EDT.DBULLARD@UGA.CC.UGA.EDU>

The Ten-Tec Model 244 digital readout worked with the Triton I & II as well as the 505 and 509. I am still kicking myself for selling it and my 509. It has changed hands several times but is still located within a few miles of where I live. Its price has gone up with each transaction and I couldn't even afford to buy it back if the owner would sell it!

If anybody runs across a 244 I do have the Ten-Tec service note SN-1-244 and I'm sure it can still be obtained from Ten-Tec. It gives details on using the 244 with any of the above mentioned rigs.

73,

Don WA4IML Athens, Georgia

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: wager@juno.com (James W. Cates)
Subject: [2319] Argo Digi-readout
Message-ID: <19960809.082059.3942.12.wager@juno.com>

Yes, they made one for the Argonaut series, but as I recall, it was for the Triton, but could be used in the 509. I had one once. Readout was in two colors, red and green. It left the shack before I became manical about accumulating QRP stuff.

Pssst.....anyone have one? jim

PS: Mine was wired into the 509. Worked great. I think I still have a

copy of the literature. If not, I know where it went. Retreivable long enough to photocopy, unless that is prohibited by the people who put warnings on mattress tags. j.

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: rob3ert@juno.com (Robert G. Parks)
Subject: [2332] ATC-1
Message-ID: <19960809.103931.3830.0.rob3ert@juno.com>

Gang,
Jim isn't the only collector! I am looking for a Regency ATC-1 Hamband convertor. Doesn't have to be working but should NOT be canibalized. If anyone has one or sees one, please let me know.

72/73

Bob Parks
K6AEC
rob3ert@juno.com

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [2365] Atn. Charles Cashion, (sorry for BW)
Message-ID: <n1372504080.71847@msmailgw1.arlut.utexas.edu>

this is bouncing on a reply from me to your sent message, and I can't find your better adr.

From: rohre on Fri, Aug 9, 1996 7:07 PM
Subject: RE: trip to Austin

Hi Charles,
Well, Zeke Harvey is still around, and some of the popular repeaters are 146.94, .88, and .78 which are all club ones. I will be out of town on vacation, so I am sorry I am going to miss your trip. You might check .08, and .06 as other repeaters. Like a lot of towns, there is not a lot of chatter except drive time.

On Sat. at the Simon David, Randalls supermarket in the Arboretum Shopping Center area, at Loop 360 and Hwy. 183, (and from 183, go in a block to Jollyville Rd. and the Simon David store is in that center on the West side of JV Rd.), you will find the ham breakfast spot for Sat. mornings. They start at 7 AM or earlier, and some may still be there at 10 AM, Zeke included.

Have fun. Also, some folks go to Altex Electronics here on Sat. afternoons to shop or browse, on Metric Blvd. off Burnet Rd. and Hwy. 183, Metric runs north from Rutland Dr. which is 1 mile North of 183 and Burnet Rd. intersection. Altex is a surplus and computer electronics store, and across from the big dish at Ch. 42 TV station. (Rutland dead ends or starts at Burnet, right in front of my Lab workplace). At the second traffic light North of 183, and there is a Jack in the Box on the corner.

73, Stuart K5KVH

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: w0rw@kktv.com
Subject: [2348] Bencher's
Message-ID: <TCPSMTP.16.8.9.15.16.42.2240783031.1725279@kktv.com>

i have an Iambic Bencher (BY-1) that i would like to swap for a Single lever Bencher (ST-1).
i never could learn iambic ! de w0rw@kktv.com Paul 72

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: George Gingell <k3tks@u1.abs.net>
Subject: [2323] Calculators
Message-ID: <Pine.BSI.3.93.960809113909.25020B-100000@u1.abs.net>

Hi Phil,
I thought that I would mention the neat one that Bob White, W03B brought to Dayton with him this year. I see that he has posted a note to you about it. I was just looking thru the Staples Catalog (Office Supplies) and see that they offer the Hewlett Packard HP-48G for \$119.99 (List \$ 135.00). I am planning to get one myself as soon as I have the spare bucks. It has loads of built-in equations and does nifty displays.
OBTW- I would like your last name and phone number for my QRP Database.
gl es

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@.abs.net

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Kerry W. Miller" <kmiller@flash.net>

Subject: [2377] Circular Slide Rules

Message-ID: <2.2.32.19960810024622.0068dc00@pop.flash.net>

L.B. forgetfully wrote:

> And the old pilot's nav aid device (senility just stole
> its name) was nothing more than a circular slide rule.

I was just demonstrating mine to a friend. It's called an E6-B, and is used to compute all kinds of things like wind correction angles, groundspeed, density altitude, all kinds of cool stuff. Most of us prefer the pet name, "whiz wheel"! Much better than the new-fangled electronic kind, and NO POWER - ZERO WATTS! Truly in the spirit of QRP.

Sorry, no real application to qrp, unless you want to go to the trouble to use it to multiply/divide to find power or something...

73,

Kerry

72 just seems awkward to me...

Kerry Miller, WD5ABC
Rt. 2, Box 135-A
Royse City, TX 75189-9802

"They that give up essential liberty
to obtain a little temporary safety
deserve neither liberty nor safety."
Benjamin Franklin, 1759

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996

From: QLF@mimi@magic.itg.ti.com

Subject: [2329] DEAD BANDS?????

Message-ID: <9608091707.AA06065@itg.ti.com>

From: Brad Bradfield QLF

Subj: DEAD BANDS?????

Brian, W5VBO wrote:

> Give it a try. Sure makes fun listening while putting in time at the
> workbench, and it may just get some activity going again on 10M.

> Brian W5VBO

> ScQRPions

I have to agree with Brian that 10 Meters is open much more than most of us realize.

Y'all have a great weekend!

Brad, WB0CGH

Electrical Design Engineer
Texas Instruments, Inc.

OLF@MSG.TI.COM

WB0CGH@W05H.#DFW.TX.USA.NA

ARRL Life Member QRP-L #377 SMIRK #4906 IEEE(M) ARS #72
Collector of wireless and landline Morse keys and accessories.

Hi Gang:

Dan mentioned to me that about 400 of these were out there. I'm looking for a little better documentation/hints/and suggestions.

Jim Cates has one and didn't get a manual with it. I'm sure he would appreciate any assistance as well.

Tell me what you want in reproduction costs/trade/left arm etc.

72, John-N5INZ

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: GARY McCAUGHEY <MAIL4GARY@worldnet.att.net>
Subject: [2311] DID I DO GOOD ON TEN-TEC 525D
Message-ID: <19960809142204.AAA21303@LOCALNAME>

With all the talk about TEN-TEC junkies, how about some input on the deal that I made. Here is what I got. How do you think I did?

TEN_TEC:
ARGOSY 525D
217 AUDIO FILTER FILTER
224 XTAL FILTER
700 MATCHING HAND MIKE
225 MATCHING PWR SUPPLY
227 MATCHING ANT. TUNER

Rig works perfect and not a scratch anywhere. I traded a Kenwood rig that I had about \$385.00 invested in. Love the rig and I know these things are kind of relative to personal desires and wants. WHAT YOU THINK OUT THERE????

THANKS AND 73's
GARY - WA2UAX

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Philip Karras <ke3fl@access.digex.net>
Subject: [2330] EduCALC phone number
Message-ID: <Pine.SUN.3.94.960809132718.29744A-1000000@access4.digex.net>

Phil-

If it's still the same, by computer phone list shows the EduCALC phone number as: 1-800-633-2252

72 & 73 de KE3FL/Phil
:-)

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: john andrews <jm165723@eee.org>
Subject: [2316] Freebies.....!
Message-ID: <320B4F98.1DD8@eee.org>

Hi Gang:

I've got 5-6 sets of the 3 coils for the "Tuna Tin 2" reprinted from QST in the June, 96 issue of QRPP. (I still have the original QST with the cat and transmitter on the cover!)

Just E-mail me and we'll work out mailing. ALMOST free, just postage.

Still got the hw-8, Century 21, and tuner parts/junkbox for sale.

72, JOHN- N5INZ

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Warren E. Lewis" <saswel@unx.sas.com>
Subject: [2309] FS: Icom 735 with Power Supply
Message-ID: <199608091359.AA24832@cardamom.unx.sas.com>

Gang,

I just recently won an Icom 706 at a local hamfest and I have too many radios. So I have the following HF Rig for sale:

Icom 735 HF rig, with keyer, hand mic, and matching Power Supply, original box and manuals. \$550 or Best Offer.

It is currently set for 5 Watts minimum on the front panel and can easily be setup to run in the Milliwatts with the ALC mod that has been described on the list. Full General Coverage Receiver and can easily be modified to work on the Maritime or MARS Frequencies.

cheers - Warren

--

Warren E. Lewis
Technical Support Division

saswel@unx.sas.com
(919) 677-8001 x6542

SAS Institute Inc.
Cary, NC

AD4ZE QRP-L#78 PP-ASEL
DOD#0021

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Warren E. Lewis" <saswel@unx.sas.com>
Subject: [2313] FS: Icom 735 with Power Supply
Message-ID: <199608091431.AA25031@cardamom.unx.sas.com>

The Icom 735 has been sold...

cheers - Warren

--

Warren E. Lewis
Technical Support Division
SAS Institute Inc.
Cary, NC

saswel@unx.sas.com
(919) 677-8001 x6542
PP-ASEL
DOD#0021

AD4ZE QRP-L#78

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Brad Mugleston <bmug@gwl.com>
Subject: [2311] Great Group of Hams
Message-ID: <199608091413.AA03087@gp-ipc103.gwl.com>

Greetings,

What a great group of people you are. Last night I send out a quick message for some help. Come into work this morning and I have 7 direct messages with answers. I asked about the EMail Address for Alinco and what the ABCD keys on my Alinco keypad were for.

FYI - there seems to be 16 DTMF tone pairs - 0-9, #, *, A, B, C and D. So if you have some extra keys on your radio these might be them.

Also you can reach Alinco at either alinco@alinco.com or info@www.alinco.com.

Thanks again for all the help.

de KB0ROL, Brad

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "peter (p.c.) abraham" <pabraham@nortel.ca>
Subject: [2343] How to send CW outside of a straight key.
Message-ID: <"287 Fri Aug 9 12:06:56 1996"@bnr.ca>

Hey Everybody,

This is sort of a QRP related.

I currently have a straight key but wanna send faster CW without getting hand cramps, what is the best device to use to send faster CW (15+ wpm).
(This should also help me to build up my speed to pass my Extra!)

I know of four options

- 1) Iambic Paddles - the "normal everyday" one
- 2) Iambic Paddles which are one piece, this looks like #1, but works like #3
- 3) Single Lever Paddle (not sure the proper name is)
- 4) Vibroplex Bug (mechanical or non-mechanical)

I've tried Iambic Paddles at my work-club station, and am having minor difficulty (my timing of the dits and dahs). Is this normal and it will take time, or am I making some common mistakes (could I be "holding" the paddles wrong, do I need to "think" differently, etc.).

Any advice will be greatly appreciated, since this will be my next big purchase. (Yes I'm on a budget, but who isn't? ;)

-Peter

--

Peter C. Abraham KB2INO | Telephone: 214-684-1875
RF Systems Engineer | E-Mail: pabraham@nortel.com
Nortel | Amateur Radio: 443.325+ p1 110.9
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From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: jim parsons <k5rov@webstar.net>
Subject: [2372] KEYBOARD NOT CW?
Message-ID: <1.5.4.16.19960809205703.12570918@webstar.net>

I HAVE BEEN A ON CW FOR OVER 55 YEARS. I HAVE USED A STRAIGHT KEY, SIDESWIPER, BUG, PADDLES (BUT I CAN'T OPERATE IAMBIC) AND A KEYBOARD. I OPERATE CW ABOUT 5 HOURS EVERY DAY, VERY LITTLE PHONE (AH, THE JOY OF BEING RETIRED).

MOST OF MY TIME IS ON 40 METERS (7036) BECAUSE THATS WHERE I FIND THE RAG-CHEWERS, WILLING TO CHAT FOR HOURS ON END. I THINK I PRETTY MUCH QUALIFY AS A CW OPERATOR. I HAVE HAD OVER A DOZEN CALLS AROUND THE WORLD, AND

OPERATED CW FROM A LOT OF COUNTRIES. AND, I MAKE NO APOLOGIES FOR USING A KEYBOARD ON OCCASION!

NOW THAT I AM CLOSE TO 70 YEARS, I FIND IT VERY HARD TO SEND DECENT CW ABOVE 30 WPM BECAUSE OF ARTHRITIS, THE JOINTS IN MY FINGERS GET TO WHERE I CAN NO LONGER CONTROL THE KEY. BUT, I CAN TYPE WITHOUT A LOT OF TROUBLE. I CHAT WITH MANY OLD TIMERS WHO ARE USING A KEYBOARD FOR THE SAME REASON. BUT ALL OF THESE FELLOWS COPY IN THEIR HEAD. THEY USE THE KEYBOARD BECAUSE ITS EITHER THAT OR QUIT CW (OR GO SLOW AND GIVE UP CHATTING WITH OLD FRIENDS WHO DON'T WANT TO). WHENEVER I OPERATE BELOW 25 WPM, I ALWAYS USE A PADDLE. BUT I ADMIT TO JUMPING TO A KEYBOARD ABOVE THAT SPEED. IF I DON'T, NOBODY COULD READ MY SENDING...NOT ANY MORE. SOMEONE SAID THAT USING A KEYBOARD IS ANOTHER FORM OF RTTY. WELL, IF YOU ARE USING A COMPUTER TO COPY AS WELL, I WOULD AGREE. BUT ALL MY FRIENDS DO COPY IN THEIR HEAD. BUT OLD AGE HAS FORCED THEM TO A KEYBOARD.

WITH THE MILITARY NO LONGER TEACHING CW, AND SOME COUNTRIES PLANNING ON ASKING THE NEXT WARC CONFERENCE TO DO AWAY WITH THE H.F. CW REQUIREMENT, I THINK ITS IMPORTANT THAT WE ENCOURAGE MORE CW OPERATION HOWEVER IT IS SENT! I LOVE QRP BECAUSE IT IS THE SINGLE-MOST AREA OF HAM RADIO THAT IS ENCOURAGING CW. I CAN REMEMBER WHEN I USED TO OPERATE 40 METERS WHEN THE WHOLE BAND WAS JUST CW. I COULD GET ON ANYTIME OF THE DAY OR NIGHT AND FIND ALL THE CONTACTS I WANTED. NOW, DURING THE DAY IT IS HARD TO FIND A CW CONTACT. BUT THE PHONE BAND IS CROWDED.

LETS ENCOURAGE CW, NOT DISCOURAGE IT, HOWEVER IT IS SENT. IT APPEARS TO BE A DYING MODE, COMPARED TO THE OLD DAYS WHEN ALL WE COULD AFFORD WAS A CW RIG. THEN, FEW HAMS COULD AFFORD THE LARGE A.M. MODULATION TRANSFORMER AND JUST ABOUT EVERYONE STARTED ON CW, AND MOST STAYED THERE. ITS NOT THAT WAY ANY MORE. USE A STRAIGHT KEY, PADDLE, BUG, KEYBOARD, BUT GET ON CW. ITS THE ONLY WAY FOR CW TO SURVIVE.

THATS MY TWO CENTS WORTH....

JIM, K5ROV...EX: KA2FC(JAPAN), DL4NC(GERMANY), SV0WN(CRETE), SV0WN(RHODES), W1RLA, K5FBB, K4FE0, DL4JP, KA2JP, W1RLA, AND A FEW MORE.

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: QLF@mimi@magic.itg.ti.com
Subject: [2315] MARTIANS, ETC, ETC, ETC, ETC
Message-ID: <9608091435.AA08391@itg.ti.com>

From: Brad Bradfield QLF

Subj: MARTIANS, ETC, ETC, ETC, ETC

NS80 wrote:

> To quote that sage of old, Bugs Bunny, "Oh Margret!"

Actually, I prefer to quote that great American philosopher Colonel Sherman T. Potter, who said, "Horse feathers!"

Brad, WB0CGH

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: AC6JA@aol.com
Subject: [2369] MFJ QRP RIG MODS AVAILABLE?
Message-ID: <960809213123_452976291@emout19.mail.aol.com>

am looking for a source of mods available to the line of MFJ QRP rigs. in particular, i am looking to add RIT to the MFJ 9420 SSB/CW QRP rig. what might also help is if someone has the schematic for the MFJ 9020 series QRP rigs. i'm sure the designs are pretty similar in nature. i can't say enough about the 9420. sure is fun to work the world at under 12watts! i have used the rig at home, in the car, out in the field, SSB, CW, and just recently have used it running PACTOR by using the CW adapter to access the lower portion of the 20m band and disabling the 700 TX offset while using the digital modes.

anyways, any help would be greatly appreciated.

72's Mike AC6JA

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: WD6BOR@aol.com
Subject: [2373] More Wire Slinging via Bow & Arrow
Message-ID: <960809220140_596134962@emout08.mail.aol.com>

I've been using a bow and arrow to put up antennas for years now and have had very good luck with only a few arrows lost (as well as a little skin on the forearm). I use fiberglass fishing arrows bought at a local sports shop for \$3 each, 30 pound test, an open-faced fishing reel on the bow and, most importantly, big, blunt ends on the arrows. I modified my arrows with blue vinyl "Scotchlocks", which are big wire connectors found in the electrical department of the local hardware store. I taper the end of the arrow, fill the Scotchlock with epoxy and then screw it onto the arrow.

The only safe way to use this launching system is to have a safety person standing out of way of the trajectory to signal when the coast is clear. I've

put lines over trees and buildings with the other person out of sight but on his two meter handitalkie. Very few fatalities.

Darrel, WD6BOR

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: bcutter@teal.csn.net (Bob Cutter)
Subject: [2314] Nerd Badge
Message-ID: <199608091435.IAA14388@lynx.csn.net>

I found a new-in-the-box K&E Log Log in an antique store, bought it and gave it to my son when he received his MEE. I guess it was quite a hit at work.

72, Bob KI0G
QBF? ZUE

Bob Cutter,Glenwood Springs, CO

KI0G

bcutter@teal.csn.net

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Adam O'Donnell" <adam@philadelphia.libertynet.org>
Subject: [2305] New nerd badge of honor
Message-ID: <199608091307.JAA23082@philadelphia.libertynet.org>

Beat this,guys
TI-92 (yes, 92) calculator

Does symbolic integration, multivariable calculus, 3d surface plots,
taylor series!

Only the top nerds owned one.
And, yes, I worked in a bakery during the winter and spent three weeks of my salary on one. They really are pretty neat.

l8r

--

Adam O'Donnell, N3RCS	PGP Public Key available
adam@libertynet.org, n3rcs@amsat.org	upon finger.

"The pursuit of truth and beauty is a sphere of activity in
which we are permitted to remain children all our lives."
-- Albert Einstein

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dan Hogan <dhhogan@lightside.com>
Subject: [2338] NorCal WWW Page
Message-ID: <m0uowgY-0006joC@covina.lightside.com>

What HTML is the NorCal page written with? When I go there All I see is a
blank yellow page, I can see the home page. Using Internet Chameleon.

Dan Hogan WA6PBY
dhhogan@lightside.com
Grid: OM84wc QRP-L #558, CQC #340

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: af852@rgfn.epcc.Edu (William R Colbert)
Subject: [2325] novice tech freqs
Message-ID: <9608091651.AA16251@rgfn.epcc.Edu>

Reference the recent thread on novice/tech+ freqs - don't forget that
in addition to 10 meters, 15 is usually open especially on a north/south
path and the novice/tech+ freqs are from 21.1 - 21.2, with some digi stuff
at the 21.105 area. QRP is usually around 21.110. 40 novice can be
pretty good (especially during the day when bcst is not audible)
if a good audio filter is used, so don't write it off even at night.
A good band to fall back on when the 80 meter static gets bad.

one final thing - any encouragement of packet stuff on a qrp cw freq,
regardless of band, is ABHORRANT!!!!!!
72/73 Ray

--
Ray Colbert, W5XE/V31XE, El Paso, Tx

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Bill Todd - N7MFB <bill@techline.com>

Subject: [2317] NW QRP Newsletter Update (August)
Message-ID: <1.5.4.16.19960809085824.28379e16@wishkah.techline.com>

Hello Gang -

Since my computers' hard drive "crash" last weekend, I have manage to re-type the entire newsletter and print out the master sheets for the August newsletter.

I should be getting the newsletter in the mail by this weekend, and will be taking a bunch of the newsletters to the Saturday morning meeting at Andy's Diner in Seattle to hand them out personally. BTW - the meeting is at 10 AM At Andy's Diner on 4th Ave. (enter the diner through the back door).

The E-Mailed newsletter is another problem however. I cannot seem to "launch" my Juno program (which allows me to insert text in the form of the individual pages of the newsletter to send to subscribers).

My backup Internet mail program is Eudora Lite....and for the life of me I cannot get Eudora to "attach" the newsletter as either a text file or a Zipped file.

The technical problem with the computer may be merely a bad IDE controller card (according to my computer "nerd" friends). I'll probably pick up a new card this weekend, and hopefully that will solve the problem.

Wish me luck!

CUL, Bill - N7MFB
NW QRP Club

Bill Todd - N7MFB

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: wager@juno.com (James W. Cates)
Subject: [2307] PebblePuppy
Message-ID: <19960809.063702.3942.1.wager@juno.com>

Y00000WL! The coveted RockHound is in the WA6GER kennel. (smirk, smirk).
John gets the
most wanted by everyone, FirePlug endorsement
for his ATTABOY certificate. For making it available,
superb packing, and priority mail. Thanks, John.

Well, a Hound this critter isn't. I had only seen pictures and thought it

would be as big as the one from the Baskervilles. But no, diminutive.
Fits in my shirt pocket. So, hence the sobriquet, "PebblePuppy."
(snicker.)

Nice addition to the accumulation. I soon will remove the panel and see
what's inside. A transistor with only three numbers in the suffix?

Thanks everyone. Keep digging into those junk boxes, garages, storage
lockers, and checking those dusty shelves. There's something else out
there just waiting to be rediscovered. hi hi. jim

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Michael Gipe" <MichaelGipe@msn.com>
Subject: [2318] PIN diodes
Message-ID: <UPMAIL06.199608091454470737@msn.com>

Phil asks:

<< Just a quuick question, what is PIN?

A PIN diode is a diode built to have characteristics just the opposite of what
most semiconductors are designed for. Its carrier lifetime is very long. In
a regular switching diode or transistor, this would limit its upper frequency
operation.

This is exactly what is wanted in a PIN diode, which is used as an RF switch.
The long carrier lifetime keeps it from rectifying the RF signal that you are
switching. The diode only looks like a diode to the DC control current used
to switch the path on or off.

It will look like an ordinary diode on your DVM, and if it looks good there,
it probably is good.

Hope this is helpful.

Mike K1MG

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dwayne Rich <drichff@interpath.com>
Subject: [2334] QRP
Message-ID: <320B7A8E.1247@interpath.com>

Does anyone know of any good 6 or 10 meter qrp kits?

Dwayne
KC4ADW

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: wa5whn@ix.netcom.com (Jay Miller)
Subject: [2303] QRP @ NM Hamfest/Aug. 17 & 18.
Message-ID: <199608091248.FAA15873@dfw-ix1.ix.netcom.com>

Dear Fellow QRP Compadres,

N5ZGT, Brian, will be conducting a QRP session at the 1996 New Mexico State Hamfest, August 17 & 18, at the National Guard Armory, 600 Wyoming Blvd. NE, Albuquerque, NM. Brian will be providing the necessary information about this proposed QRP forum. If nothing else, just to renew old friendships & meet new QRPers. If You need information about the Hamfest, contact KC5HZE, Judy @ 505-891-9132. If You would like to talk about our favorite subject "QRP", talk to N5ZGT, Brian, n5zgt@swcp.com. I will monitor the 147.15 MHz repeater (no pl, +600 KHz) for other QRPers.

72...Jay, WA5WHN Albuquerque, NM

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: k7yha@juno.com (Richard H. Arland)
Subject: [2352] QRP Power (The Book) is OUT!
Message-ID: <19960809.222108.4447.2.k7yha@juno.com>

Gang:

The UPS Dude just dropped off my courtesy copies of the ARRL's new QRP book, QRP POWER. They have done a GREAT job. Some of the stuff hasn't been published before except for QEX. I gotta say the guy who wrote the Preface is one outstanding dude (good author, too! HI).

Now, if N6HCS will send me his e-mail address, we'll get the necessary info and get the copy he won at Zuni FD out to him, post haste.

72 rich K7YHA

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: wylde@nccn.net (Grover Cleveland)
Subject: [2333] R.R. Mobile this weekend
Message-ID: <v02130502ae312c1d11fe@[205.139.74.188]>

Look for me qrp on 40 meters this weekend as I take my railcar on a 100 mile excursion on the North Fork of the Eel River in the redwood country of Northern California.

This is a wonderful trip on a section of the river where the only road is the railroad. I will be taking divers from Fish and Game Dept. on a survey of the river. When we stop, sometimes for an hour at a time, I will deploy the 40m antenna, attach a ground clamp to forty miles of track and call on about 7038. The rig is a Norcal 40 mounted in the railcar and a straight key to make noise with.

Check out these railcars at: <http://ourworld.compuserve.com/homepages/gcleveland>

73 to all,

Grover WT6P

- - -

P. Grover Cleveland WT6P / QRPARCI 3795 / ARS 101 / Norcal 216
Sr. Engineer - Tektronix/Grass Valley Stuff
Archaeominiferroequinologist
Fairmont Speeder Pilot
Certified Steam Locomotive Driver

Can also be found at: cleveland@usa.net
groverc@gvgadg.gvg.tek.com
71213.2741@compuserve.com

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Jerry Parker <jparker@fix.net>
Subject: [2375] R8 Receiver on the Internet
Message-ID: <2.2.32.19960809143116.006f4650@fix.net>

Want to listen to your favorite QRP frequency in Virginia from anywhere in the world

Just take your full function browser to

<http://www.chilton.com/scripts/radio/R8-receiver>

Once on the page set the receiver up and bingo your ready to download a real time sample

of the frequency you chose.

Enjoy,,,

72,,,Jerry...WA6OWR...K

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: chas@nmaa.org (Charles Kadesch)
Subject: [2325] RPN calculators and more
Message-ID: <320B8C74.1FE6@nmaa.org>

If you like RPN- get yourself FORTH
for your PC. With a little effort you
calculate and a whole lot more.
72 de Chas W8KUX

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "W. Daniel, 9V1ZV" <daniel@pandora.lugs.org.sg>
Subject: [2371] RPN RuLeZ
Message-ID: <320be4c5.pandora@pandora.lugs.org.sg>

Hi Gang,

I couldn't help but jump in. I know by now there are guys putting "RPN" into their kill filter but I must say that having got started on RPN on my HP48, now when I go back to normal calculators I get all confused. It just don't seem "right".

Now, on the QRP note, my 48GX is programmed to do some filter, RLC, computations. Very nice, it even has a serial port and I have a terminal program which I use with the TNC. Now, all I want to do is write a logging software which will take the data from my newly computerized ARK-20. I've heard of CW generators for the 48GX as well.. what a calc.

Incidentally, while on the subject of loggers, I have written a rather comprehensive general logging software which will connect to most ICOM rigs, and keep track of DXCC plus a host of other features. The program is already on some of the common sites under the name L10G.ZIP or L10x.ZIP where x is a revision letter. If anyone wants the source code to roll their own (read homebrew) customized logger (which includes a memory keyer and accepts the paddle in the joystick port), I will be more than glad to post it, for the first time. It has a kind of a gray scale map in it as well plus a terminal window and DX-spotting. Oh well....

73 de 9V1ZV Daniel

--

Daniel Wee | daniel@pandora.lugs.org.sg
9V1ZV | daniel.wee@f516.n600.z6.fidonet.org

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Ronald Hands <Ronald.Hands@freenet.hamilton.on.ca>
Subject: [2374] RS DSP
Message-ID:
<Pine.SOL.3.91.960809215943.16508A-100000@james.freenet.hamilton.on.ca>

I'm curious to see how well one of the Radio Shack DSP units would work at my station.

Does anyone have one of the clearance-price units he or she would like to unload? This would involve shipment to Canada, preferably by parcel post, not UPS, with appropriate reimbursement.

(The RS DSP is not being sold at clearance prices here, unfortunately.)

Alternatively, do any of the members of the Buffalo QRP Connection know if any RS stores in the Buffalo/Niagara Falls area have the DSP still available at the clearance price?

-- Ron VE3SP
ronald.hands@freenet.hamilton.on.ca

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Ed Manuel" <n5em-qrp@msn.com>
Subject: [2312] Slide Rules
Message-ID: <UPMAIL06.199608091416350611@msn.com>

Had to do a presentation at the ATV Club meeting on stacking yagis. Needed to do some calculations of quarter wave transformers. Have to take square roots to do that. The old reliable TI is on the blink. The old HP is dead.

Did the entire presentation with a slide rule (K&E Decilon - there) and amazed the newbies. Not only did I HAVE one, and know how to use it, I acted as if it was a normal way to do math. It was fun :-)

Ed, N5EM
n5em-qrp@msn.com

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: thom.lacosta@fido261.qis.net (Thom LaCosta)
Subject: [2340] Slide Rules
Message-ID: <f43_9608091520@fido261.qis.net>

"Ed Manuel" wrote in a message to All:

"M> Did the entire presentation with a slide rule (K&E Decilon - there)
"M> and amazed the newbies. Not only did I HAVE one, and know how to
"M> use it, I acted as if it was a normal way to do math. It was fun
"M> :-)

you mean there are ways other than a rule?
Hmmmm

Thom LaCosta
K3HRN
thom@fido261.qis.net
Our Business is Business

--

|Fidonet: Thom LaCosta 1:261/1352
|Internet: thom.lacosta@fido261.qis.net
|Standard disclaimer: Take a Naugha to Lunch today YOU pay the bill!

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: thom.lacosta@fido261.qis.net (Thom LaCosta)
Subject: [2345] Slide Rules
Message-ID: <f4d_9608091629@fido261.qis.net>

"Bill C." wrote in a message to All:

"C"> From: "Bill C." <wrc@tir.com>
"C"> Thom,

"C"> Fingers and toes!!

Oh yes, that number base...I am also familiar with the one that allows for counting up to 21.

Thom LaCosta

K3HRN

thom@fido261.qis.net

Our Business is Business

--

|Fidonet: Thom LaCosta 1:261/1352

|Internet: thom.lacosta@fido261.qis.net

|Standard disclaimer: Take a Naugha to Lunch today YOU pay the bill!

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996

From: Paul Harden <pharden@aoc.nrao.edu>

Subject: [2363] SLT Attenuation fixed

Message-ID: <199608092314.RAA17049@zia.aoc.nrao.edu>

A couple have recently posted how their newly built St. Louis Tuner experienced huge attenuation. Just finished mine, and it also highly attenuated received signals. Then got some email from others complaining of the same.

In my case ... I discovered the 12-position inductor switch, S2, was just barely touching the bottom of the tuning cap. The metal part of S2 closest the front panel, where the shaft protudes, was touching the bottom of C5's frame ... effectively shorting it to ground. I checked to ensure C5 and C6 were isolated from ground after I mounted them; later it showed connected to ground, which I reasoned was due to the multi-tap toroid now grounded through S2. I removed S2 and filed away about 1/16th of an inch and re-installed. I did this very carefully ... don't want to have to do that toroid and switch again! Fixed the problem.

I inserted a 1v p-p signal into the transmitter BNC and measured 0.8v p-p at the output after peaking with the inductor and capacitors. This works out to 1.9dB loss, or very acceptable. Frankly, not sure that test is a measure of anything, except to confirm there is no serious attenuation now occurring to the signal path through the tuner.

Then hooked it up to my tuned inverted-vee, and I heard no difference between the bypass (off) position and the tuner position once I established a 1:1 SWR. (That was a 1W signal on 7045 last night about 2100 MDT. If you heard it - QSL via buro!). In other words,

it works like a tuner is supposed to work. Hope to calibrate the meters this weekend for some measure of output power and will pass it on.

Moral of the story ... if you are experiencing large attenuation, check and double check that the two variable caps are isolated from ground like they're supposed to.

GL, Paul NA5N

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Bill Acito 09-Aug-1996 0859 <acito@asdg.ENET.dec.com>
Subject: [2305] Status/Availability of KC-2?
Message-ID: <9608091303.AA17375@us1rmc.bb.dec.com>

I'm assuming the first 50 eval units are long gone.

I checked the Norcal page. Has a final price/shipping been set for the unit? Availability? Infintissimal chance that anyone with the first units may want to sell one?

I have a SW-30 almost done, starting on the case, and would like to add one.

b

. - I own my own words -

Bill Acito
acito@asdg.enet.dec.com
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS qrp-ne qrp-1 arci norcal amsat-na arrl-life

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: bkassel@enet.net (Brian Kassel)
Subject: [2326] Ten Meter Opening Trick - Addendum
Message-ID: <199608091653.JAA19377@maple.enet.net>

Recntly WB2VU0 wrote:

>I read Brian, W5VB0's comment with some amusement. The BEST 10 Meter
>indicator(s) are the beacons, which reside in the area from 28.1750 MHz
>and 28.3000 MHz...

You're right, they are THE BEST indicators. I've used them for years myself. Guess maybe I didn't do a good job of explaining why one might utilize them IN ADDITION to the well known beacons. I use them simply because listening for the CW beacons requires manual tuneing and an active search on the part of the operator. The FM approach allows virtually 24 hour monitoring, and a totally passive participation by the operator. After hearing the squelch pop a few times, one could turn on the "real" radio and search for any beacons.

Guess that I just don't like listening for hours when I could be building...HI HI!

Thanks for the note. I'll be looking forward to seeing the latest beacon list. Thanks for taking the time to compile it.

Brian W5VB0
ScQRPions

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: George Gingell <k3tks@u1.abs.net>
Subject: [2322] Ten-Tec Junkie ?
Message-ID: <Pine.BSI.3.93.960809112653.25020A-100000@u1.abs.net>

Dave,

You are not alone. :^)
I only wish I could afford more, I envy you. :^)

MR1 modules, AC1-ATU, PM3A, Argonaut 509, Argonaut 515 and 8 Amp P.S.,
405 Linear Amp. (Only used by previous owner :^)). Omni VI, only if I
hit the lottery! :^(

Hang in there, don't let them scare you, we have to stick together is
this Group. (Ten-Tec Anonymous) :^)

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@.abs.net

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Chris J. Cartwright - ELF" <dsc3cjc@imc220.med.navy.mil>
Subject: [2323] Ten-Tec Junkies ?
Message-ID: <Pine.3.89.9608091110.A1875-0100000@imc220>

I just ordered my first Ten-Tec item, a 1209, should I be worried about becoming addicted? Does the Surgeon General have a mandatory warning on these things yet? How long before I lose my house, car, job, and start pan-handling to get that one last "Omni-fix"? And why do I seem to look forward to becoming and addict? =)

-- Christopher Cartwright, Tech. Engineer		...our chief weapons are fear,
-- Voice 301.295.0809 N3XRV		fear and surprise, and nice
-- Mail dsc3cjc@imc220.med.navy.mil		red uniforms, oh damn!!
-- ccart@erols.com		-- Monty Python

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Peter Zenker <100743.3320@compuserve.com>
Subject: [2296] Thanks help Index Lab
Message-ID: <960809074916_100743.3320_EHV74-2@CompuServe.COM>

Hi gang,
lots of thanks to all off you who sent informations about Index.
I will inform Einar today, that he is not the only one waiting ;-(but that he can be hopefull.
By the way, I,m very surprised with my own QRP+ and i will n o t change to the ++. I belive the old receiver is hot enough because its an QRP rig.
72 de Peter

!^NavFont02F01030006IGHHHKF63E

E-mail von: Peter Zenker, 08-Aug-1996

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Nick Franco <kf2ph@bnl.gov>
Subject: [2347] TMPS Report
Message-ID: <320BA5C9.14BD@bnl.gov>

Once ever couple of weeks I like to give my TMPS report. Bob W03B is requesting mW reports as well. Well I received a new 2sc799 final for my SW-30 so I'm no longer running 800 mW in the car. I've graduated to

2 watts out now and could probably get almost 3 out of my SW-30. I do have the MAR-3 enhancer mod in it but never really took advantage of it before. I recently bought the RIT mod but haven't put it in yet. I needed the SW-30 for my backpacking trip I reported about earlier in the week and didn't want anything to go wrong with the rig before that trip.

Anyway, 30 has been pretty good to me, especially considering the limited times I get on the air. I've been working the TMPS from the car almost exclusively and only on at drive times to and from work. I don't get on much at all on the weekends, except for the Knightlights net on 80m once in a while.

Last night I fired up the NW40 and was listening around. 40 is in OK shape in the late evenings. After listening in the QRP are for a while I decided to see what DX was around. I heard many stations calling and working down on the first 20 kHz. In the midst of all the noise I heard SM5IMO calling CQ. I gave him a shout and he picked me up on the first shot. I guess that 5 watts out is nothing to sneeze at :) We had a nice little chat and I went to bed. So I getting ready for this year's fox hunts! I'm rarín' to see how the new NW40 and the HF6V do for me this year. Works great for DX but the fox hunt is a whole different story.

TMPS to date:

KF2PH TMPS 1996 Qs=065 States=19 Confirmed=21 DX=09

Have a great weekend all es 72,
Nick - KF2PH

--

Nicholas J. Franco <>> BROOKHAVEN NATIONAL LABORATORY
Sr. Systems Specialist RHIC Project - Building 1005 - Room 201
Tel: (516) 344-5467 Fax: (516) 344-3674 UPTON, N.Y. 11973-5000
Email: kf2ph@bnl.gov <http://www.rhichome.bnl.gov/People/franco>

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dan Keen <70731.722@compuserve.com>
Subject: [2293] Trade in yer old KC-1?
Message-ID: <960809061137_70731.722_EHM23-1@CompuServe.COM>

Howdy,

I wish to purchase 1) an unmodified working built KC-1 keyer (or an unbuilt complete kit) plus 2) the KC-1 documentation for \$25, seller to pay shipping.

Maybe this offer is sorta like a \$25 (minus shipping) trade-in allowance for someone to upgrade to the KC-2?

TNX DAN

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [2300] RE: 10 Meter Band Opening Trick
Message-ID: <19960809.075211.4815.0.wb2vuo@juno.com>

I read Brian, W5VB0's comment with some amusement. The BEST 10 Meter indicator(s) are the beacons, which reside in the area from 28.1750 MHz and 28.3000 MHz...

I am in the process of updating the list I posted back in July, and will have the latest updates this week. The beacons run 0.5 W to 25 W, usually on CW, sometimes FSK, and are sited all over the world.

I have been the trustee for the KB2YTW/B beacon through its prior calls and versions since 1979, and the reports still amaze me. Joe, K2VI/4 has been listening to the beacon, and the W2RTB/B beacon on 28.279 daily since he moved to Florida. In addition, he has passed on a list of "Heards" to me for my list.

Many of the beacons use the Maidenhead Grids for the locator. the ARRL has a Grid map, and a Grid atlas available, and I understand that Cush Craft provides a complimentary copy of a Grid map with their VHF/UHF antlers. There also used to be a copy of the US grid map in the Handbook, and it may even be out there on the Net somewhere...

I would appreciate reports on the KB2YTW/B beacon here on the QRP-L, and will reply in kind. The frequency is 28.2860 MHz, running 4 watts to a G.P. up 40 feet. The Grid is FN13ac, which is 25 miles (40 Km) Southwest from Rochester, NY, in the Depths of the Great Bergen Swamp...

72/73, Keith, WB2VUO, QRP-L # 582
KB2YTW/B - B/BAMS Beacon, 28.2860 MHz on your Radio Dial :-)

wb2vuo@juno.com

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [2301] Re: A word to the wise . . .

Message-ID: <Pine.SOL.3.94.960809075823.26297B-100000@utkux4.utcc.utk.edu>

Rick's Words to the wise about disconnecting when a tthunderstorm is in the area apply not only to computer/telephone connections, but to ALL (yes, I shouted ALL) electronics connections: antennas (ground the leads out of doors), power (including ground), telephone, test gear, stereo. Let all the equipment be isolated as if it all were still in the shipping boxes. If it cost more than a few bucks (I leave some clocks and clock radios hooked up--and have lost a couple over the years) or I built it, then I isolate it. This includes my ground strap.

That means--as Rick has done--some redesign of where leads go and how to connect/disconnect them a. fast and b. completely. Look for hidden paths to which you think nothing can happen: it can, will, and needs connect/disconnect treatment.

I am amzed sometimes at the wonderful operating positions I see in magazine photos of shacks: every convenience in the world to make the operator's favorites modes of on-the-air activity both efficient and comfortable--hundreds of hours of thought, building energy, beautiful materials, etc. BUT, not one thought to connect/disconnect.

I have nothing against all those lightning protection devices--I use some of them myself---as backups. However, since I do not have to be on the air during a thunderstorm (in contrast to police, fire, military, broadcast, telephone relay, and lots of other services), I choose to isolate as my primary mode of protection. It works.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: randy foltz <rfoltz@wsunix.wsu.edu>
Subject: [2321] Re: Adventure Radio Society
Message-ID: <Pine.OSF.3.91.960809082858.11075B-100000@unicorn.it.wsu.edu>

Ernie,

The person you want is Russ Carpenter, AA7QU. His e-mail addr is Russ1031@aol.com. There is a homepage at <http://members.aol.com/adradio/index.html>. I worked Russ on Monday night while he was on vacation, so he may not reply immediately. The homepage has most of the info you could want.

72,
Randy
WB5QMP ARCI QRP-L NORCAL NWQRP ARS
Moscow, ID

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [2327] Re: Calculators
Message-ID: <Pine.SUN.3.90.960809100208.4816B-1000000@vortex.sage.dri.edu>

Hi All,

The best calculator I have seen is the one that Bob Cutter,
KI0G, has.....he brought it to WIMU96.....it's a keyer!

Much more fun to play with than other calculators!

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: George Gingell <k3tks@u1.abs.net>
Subject: [2335] Re: Calculators
Message-ID: <Pine.BSI.3.93.960809142913.29455A-1000000@u1.abs.net>

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@.abs.net

On Fri, 9 Aug 1996, Monte Stark wrote:

> Hi All,
>
> The best calculator I have seen is the one that Bob Cutter,
> KI0G, has.....he brought it to WIMU96.....it's a keyer!
>

> Much more fun to play with than other calculators!
I agree, however, I rather prefer my Keyboard to both.
I really like the programmable memories and the way it allows
you to sit in wait for the dx to end his /her call and with one
stroke of the key you can lay down your fire (Callsign & QRP or whatever)
It is a real edge when there is a pileup and you are trying to "Sneak in"
with your lil QRPP signal. It also takes care of that "DX
Nervousness/Excitement Jitters", or whatever you call it when you finally
get through to the rare one and Suddenly forget how to use the keyer :^)
OBTW- Making great progress on the basement remodeling/cleanup. Amazing
the things that I have ReDiscovered. Kind of like finding lost treasures
:^)
Have a nice weekend. 72 es cul

>
> cul,
>
> 73, Ron,
>
>KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
>ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
>QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....
>

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Paul R. Valko" <prvalko@Oakland.edu>
Subject: [2295] Re: Confessions of a Ten-Tec Junkie
Message-ID: <Pine.OSF.3.91.960809030422.11230C-1000000@vela.acs.oakland.edu>

On Thu, 8 Aug 1996 DYARNES@aol.com wrote:

> I am a Ten-Tec junkie and it's time that I came out of the closet!
> There! I've said it! What a relief!
> In more or less chronological order over the years since about 1972 I
> purchased:

<SNIP!> List of 9 rigs, (only seven still owned) deleted.

> Is there any hope?

Hope? You are a low-grade Ten*Tec collector. Once you have acquired at
least five Power Mites, write back, Jim Cates and I will be happy to
invite you to the secret Blood-Initiation at Dayton :-)

73 =paul= wb8zjl
Collector of Ten*Tecs and other fine plastics

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Brad Mugleston <bmug@gwl.com>
Subject: [2310] RE:CQC
Message-ID: <199608091408.AA03079@gp-ipc103.gwl.com>

Bob,

We meet every Monday night at 8:00pm local time on 147.225 (-0.60 offset). The meeting usually lasts 1 to 1.5 hours and is open to everyone. I'm not sure what the average count is but sometimes its hard just to get everyone checked in during the first 45 min.

This repeter is linked so that we cover from Southern Colorado into Southern Wyoming. There are no tones needed so just check in and be ready to tell and listen to QRP stories.

de KB0ROL, Brad

>
> Hi Brad. What 2 meter repeater and at what time on Monday nite do the
> CQC guys get together? I will be back in Denver for a visit soon and I
> might listen in. Just signed up for CQC also. Saw your note on the QRP
> list.
> 72/73 Bob W0LK, Mountain View, Arkansas

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Bill C." <wrc@tir.com>
Subject: [2334] Re: CW or not CW
Message-ID: <320BA97E.4061@tir.com>

Hi Duane,

I understood you and was clumsily trying to reinforce your ideas. I put some additional stuff in, too. There isn't much trouble with flames in the list. I can't even imagine how some of the flames in other places came about!! Some people!!

As for the cw sub-bands... If those are eliminated then phonies will have to compete with cw on *ALL* the ham spectra. Did you notice that phone is restricted to the phone sub-bands, but cw is not restricted to a sub-band? Maybe the anti-cw crowd should be pleased that we stay down in our no man's land <grin>. They don't have to listen to it.

73,

Bill KU8H

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Bill C." <wrc@tir.com>
Subject: [2336] Re: Homebrew Xtal ovens?
Message-ID: <320BAE3C.5CD8@tir.com>

Hi Daniel,

The trick seems to be getting the *control* for the heating element to work right. No reason why a transistor can't be used. I used a light bulb in my homebrew two meter FM rig. Winters are cold here and the rig lived in my truck. I used an op amp as a comparator and found that the hysteresis was critical. There has to be a wide enough band or the light was on all the time... or.. wouldn't come on at all. A transistor might be used in a more linear manner... heating up a little or a lot depending on ambient temp. The light bulb was either on or off.

The band plan changed and I ordered new xtals from a different company. I replaced Jan crystals with some from Sentry Manufacturing. I soon discovered that Sentry crystals worked in the cold without the heater and replaced them all!! I haven't bought Jan's since (25% failure rate and 100% cold failure). Sentry has proven to work 100%... rain or shine.

I wonder how much heat you can safely get out of a T0-220. How much power to run it? Keep us posted.

Bill

KU8H

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: brozenske@juno.com (Barrie L Brozenske)
Subject: [2353] Re: Homebrew Xtal ovens?
Message-ID: <19960809.175747.4582.0.Brozenske@juno.com>

This should work very well, especially with some of the new IC's with temperature sensors built in (I think some of them are voltage reference IC's). The only down side is the extra power required if you work on batteries. Try to thermally insulate it as much as possible, and keep the temperature as low as possible to minimize power drain. Also remember that parts dissipating power may make the inside of the oven hotter than the oven set point temperature, causing loss of temperature regulation.

Sounds like a fun project--Enjoy.

73,

Barrie Brozenske, K3BUZ

brozenske@juno.com

On Fri, 09 Aug 1996 10:02:06 +0800 "W. Daniel, 9V1ZV"

<daniel@pandora.lugs.org.sg> writes:

>Hi Gang,

>

> I've been having some free time with nothing to do except

>aligning and

>re-aligning my rig when I got the idea of building a hambrew oven for

>VFO's

>and x'tal oscillators. I remember many years ago at the beginning of

>my

>hobby I saw a project which controlled temperature using a transistor

>as the

>heating element. I was wondering if it might be possible to make a

>very

>small oven using a T0-220 transistor, for example, to maintain the

>temperate

>of the VFO or the xtal in an oscillator. What do you guys think of

>this

>idea? It could be used to stabilize a number of critical components,

>eg. the

>crystal in a frequency counter

>

>73 de 9V1ZV Daniel

>--

> Daniel Wee | daniel@pandora.lugs.org.sg

> 9V1ZV | daniel.wee@f516.n600.z6.fidonet.org

>

>

>

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dan Keen <70731.722@CompuServe.COM>
Subject: [2379] Re: How to send CW outsi
Message-ID: <960810034624_70731.722_EHM63-1@CompuServe.COM>

Peter,

Robert's advice of mode B iambic is sound. Also I think that the other methods all have to be _unlearned_ when you move up to the fastest method (iambic B). Unlearning can be difficult. So you may want to avoid all the other speed key methods. On the other hand, you may wish to instead simply avoid iambic because learning each of the other methods shouldn't hinder learning the others.

The one method not mentioned much was the simple sideswiper. Compuserve's Ham Forum library 7 has a .GIF file showing how to easily make one with a hacksaw blade, block of wood, screws, ground lug. It's all hardware, no electronics needed. The oldtimers all seem to say that a hacksaw blade should be considered only an emergency replacement for the much preferred corset spring. Since they're a rare encounter nowadays, if the occasion arrises salvage the springs. And then please send me a couple springs <g>, willing to pay here <g>.

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: wb2vuo@juno.com (William K Hibbert)
Subject: [2366] RE: How to send CW outside of a straight key
Message-ID: <19960809.203514.4799.2.wb2vuo@juno.com>

Turn off the Flames, everyone, and let's think this one out. A couple of weeks ago, I asked for advice on reducing the stress on the hands/wrists due to osteo-arthritis, and still be able to run CW for more than 5 - 10 minutes..

The majority of the replies suggested a keyboard of one type or another, and I am ready to do just that, running an old Tandy Model 100 with CW software that was sent to me anonymously on a cassette (Thanks to whoever...)

I won't go into copying copious amounts of already distributed text, but CW is CW, regardless of HOW you generate it, and the operation is a matter of personal preferences, combined with physical necessity. I would much rather stay with my "Speed-X" or J-38 , but I won't be able to. HOWEVER... I WILL BE ON CW !!!

No one sez that I need to Krank the speed up into the Hypersonic range,
15 - 30 WPM is fast enough, and I can even S-l-o-w-w-w down for the
Novice/Tech/Old/New-timer just getting back into CW...

Final note:

THIS IS --JUST-- A HOBBY... Enjoy!

72/73, Keith, WB2VUO, QRP- L # 582

wb2vuo@juno.com

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dana Myers <myers@bigboy.West.Sun.COM>
Subject: [2345] Re: How to send CW outside of a straight key.
Message-ID: <Roam.3.0.839611398.5131.myers@bigboy>

> Hey Everybody,
>
> This is sort of a QRP related.
> I currently have a straight key but wanna send faster CW without getting
> hand cramps, what is the best device to use to send faster CW (15+ wpm).
> (This should also help me to build up my speed to pass my Extra!)
>
> I know of four options
> 1) Iambic Paddles - the "normal everyday" one
> 2) Iambic Paddles which are one piece, this looks like #1, but works like #3
> 3) Single Lever Paddle (not sure the proper name is)
> 4) Vibroplex Bug (mechanical or non-mechanical)

Don't overlook option #5: use a computer. Even a little HP-100
would do the trick if you receive by ear; write a short little
program to send Morse code from ASCII, and use one of the parallel
port I/O bits to drive the external keying circuit.

I suppose someone might flame me for suggesting doing something the
easy way, but, c'mon, code is code, regardless of how it is generated.

;-)
Dana KK6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [2345] Re: How to send CW outside of a straight key.
Message-ID: <Pine.SOL.3.94.960809163425.3994B-100000@utkux4.utcc.utk.edu>

On Fri, 9 Aug 1996, Dana Myers wrote:

> Don't overlook option #5: use a computer. Even a little HP-100
> would do the trick if you receive by ear; write a short little
> program to send Morse code from ASCII, and use one of the parallel
> port I/O bits to drive the external keying circuit.
>
> I suppose someone might flame me for suggesting doing something the
> easy way, but, c'mon, code is code, regardless of how it is generated.

Keyboards are great--even better code than keyers. (Ever copied one of those folks who just has to fiddle with the weighting and his monitor and his RF output do not agree?) Have used them for years, and even designed a few before the one-chip models put my 20+ chip models (for FIFO buffer and memory) out to pasture. Present one is a modified Adam keyboard that some folks in CT programmed the chip for CW and control and added an output opto chip--still runs great after numerous years. Save the mainframe for situations where you want to receive, log, and transmit altogether.

-73-

LB, W4RNL

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dean Marzocca <n2tnn@ifu.net>
Subject: [2354] Re: How to send CW outside of a straight key.
Message-ID: <320BB947.20AF@ifu.net>

Dana Myers wrote:

>
> > Hey Everybody,
> >
> > This is sort of a QRP related.
> > I currently have a straight key but wanna send faster CW without getting
> > hand cramps, what is the best device to use to send faster CW (15+ wpm).
> > (This should also help me to build up my speed to pass my Extra!)
> >
> > I know of four options

> > 1) Iambic Paddles - the "normal everyday" one
> > 2) Iambic Paddles which are one piece, this looks like #1, but works like #3
> > 3) Single Lever Paddle (not sure the proper name is)
> > 4) Vibroplex Bug (mechanical or non-mechanical)
>
> Don't overlook option #5: use a computer. Even a little HP-100
> would do the trick if you receive by ear; write a short little
> program to send Morse code from ASCII, and use one of the parallel
> port I/O bits to drive the external keying circuit.
>
> I suppose someone might flame me for suggesting doing something the
> easy way, but, c'mon, code is code, regardless of how it is generated.
>
> ;-)
> Dana KK6JQ
> Dana@Source.Net

The flame button was on before I even finished the note. The keyboard is not pure, pure cw. It might sound like it but it's not the real thing. BTW, why would you want to go that fast? Slow down and enjoy the music, it's not going to go away, we have all night, or all day. Put the keyboard away and pull out a bug and enjoy..

73, Dean

--

N2TNN's "HAM IT UP" 30 FT Cabin Cruiser via Barnegat Bay, NJ
FN20rm, Somerset, NJ ///10 M MARINEMOBILE///40 M QRP/MARINEMOBILE
MARINEMOBILE/WAS- MA,VA,OH,CT,TN,
NJ-QRP#36,NORCAL#1239,QRP-L#560,QRP-ARCI#9232,Knightlites,CQC

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [2358] Re: How to send CW outside of a straight key.
Message-ID: <2.2.32.19960809214132.00ab48d4@public.compusult.nf.ca>

Peter,

MY advice to you - go for an iambic key (two paddles) something like a Bencher or Vibroplex Brass Racer (buy a used one here on the qrp-l list) and go for a type Mode B memory keyer (Curtis chip, MFJ etc) and learn to use both together. After that there is NO turning back to any other sort of key/keyer.

Good luck 73/72 Bob V01DRB/WA6ERB

PS: Peter - DON'T pay any attention to the guys/gals who tell you to stay

with the straight key, single paddle, bug , Mode A or ANYTHING else. Let's see how many flame throwers will come my way on that one - I need to develop my "tan" for the summer - hi.

At 11:34 8/9/96 -0400, you wrote:

> I've tried Iambic Paddles at my work-club station, and am having minor
> difficulty (my timing of the dits and dahs). Is this normal and it will take
> time, or am I making some common mistakes (could I be "holding" the paddles
> wrong, do I need to "think" differently, etc.).

```
-----
| Bob Gobrick - VO1DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@nfld.com |
| Compuserve:    70466.1405@compuserve.com |
|-----
```

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dana Myers <myers@bigboy.West.Sun.COM>
Subject: [2359] Re: How to send CW outside of a straight key.
Message-ID: <Roam.3.0.839619787.7270.myers@bigboy>

Dean, N2Tnn, wrote:

> Dana Myers wrote:
> >
> > > Hey Everybody,
> > >
> > > This is sort of a QRP related.
> > > I currently have a straight key but wanna send faster CW without getting
> > > hand cramps, what is the best device to use to send faster CW (15+ wpm).
> > > (This should also help me to build up my speed to pass my Extra!)
> > >
> > > I know of four options
> > > 1) Iambic Paddles - the "normal everyday" one
> > > 2) Iambic Paddles which are one piece, this looks like #1, but works like
> > > #3
> > > 3) Single Lever Paddle (not sure the proper name is)
> > > 4) Vibroplex Bug (mechanical or non-mechanical)
> > >
> > Don't overlook option #5: use a computer. Even a little HP-100
> > would do the trick if you receive by ear; write a short little
> > program to send Morse code from ASCII, and use one of the parallel
> > port I/O bits to drive the external keying circuit.
> >

> > I suppose someone might flame me for suggesting doing something the
> > easy way, but, c'mon, code is code, regardless of how it is generated.
> >
> > ;-)
> > Dana KK6JQ
> > Dana@Source.Net
>
> The flame button was on before I even finished the note. The keyboard
> is not pure, pure cw. It might sound like it but it's not the real
> thing. BTW, why would you want to go that fast? Slow down and enjoy the
> music, it's not going to go away, we have all night, or all day.
> Put the keyboard away and pull out a bug and enjoy..

'CW' in the amateur radio context means on-off keying of a radio carrier using International Morse Code timing and patterns. It doesn't matter how it is generated; it is pure, pure CW if it follows the timing and patterns defined in the International Morse Code specification. Why worry how someone generates a signal? Communicate, do the things that you enjoy, and let others do the same. For some people, the interest in radio is in the thoughts and ideas that are exchanged, that is what is real; it doesn't matter one iota if thoughts are exchanged using a keyboard or by tapping two wires together - they're equally pure.

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Bob Hirsch" <bobh@p3.net>
Subject: [2360] Re: How to send CW outside of a straight key.
Message-ID: <199608092245.SAA29536@p3.net>

To my mind -- CW sent from a keyboard should be considered a form of RTTY; not CW.

=====
73 de Bob, AA3ON

No Code, No HF....Know Code, Know HF!

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dean Marzocca <n2tnn@ifu.net>
Subject: [2361] Re: How to send CW outside of a straight key.
Message-ID: <320BC471.6CFF@ifu.net>

Dana Myers wrote:

>
> Communicate, do the things that
> you enjoy, and let others do the same. For some people, the interest

> in radio is in the thoughts and ideas that are exchanged, that is
> what is real; it doesn't matter one iota if thoughts are exchanged using
> a keyboard or by tapping two wires together - they're equally pure.

Dana,

If this was a life or death situation then by all means do what you have to use to get the signal out. Tap your two wires together, hey that might be fun!

I hear those keyboard qso's and they don't thrill me a bit. Of course I can't copy the speed but the other op probably has a reader to make ends meet.

If you want to learn cw then you have to do it. Manual sending will make it stick faster because you have to use your brain to think what you are doing. Computers will take the message in memory then key it out while you sit back and do something else, maybe even listen.

There was a thread awhile back covering what pure qrp or portable or homebrewing involves and it does not come down to making your own crystals but if you want to enjoy "pure" cw then DO IT!!, not type it.

Hope that clears it all up.

Dean

--

N2TNN's "HAM IT UP" 30 FT Cabin Cruiser via Barnegat Bay, NJ
FN20rm, Somerset, NJ ///10 M MARINEMOBILE///40 M QRP/MARINEMOBILE
MARINEMOBILE/WAS- MA,VA,OH,CT,TN,
NJ-QRP#36,NORCAL#1239,QRP-L#560,QRP-ARCI#9232,Knightlites,CQC

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Hank Kohl <k8dd@tir.com>
Subject: [2362] Re: How to send CW outside of a straight key.
Message-ID: <199608092307.TAA09189@tir.com>

At 15:43 08/09/96 -0400, you wrote:

>Dean, N2Tnn, wrote:

>

>> Dana Myers wrote:

>> >

>> > > I currently have a straight key but wanna send faster CW without getting
>> > > hand cramps, what is the best device to use to send faster CW (15+ wpm).

Who says you have to send fast? I know a few OT's who send about 15-20 wpm with a straight key. They can receive well over that. Well over double that, but they like the straight key.

>> > I suppose someone might flame me for suggesting doing something the

>> > easy way, but, c'mon, code is code, regardless of how it is generated.

And that's a fact.

>> BTW, why would you want to go that fast? Slow down and enjoy the
>> music, it's not going to go away, we have all night, or all day.

Why does Richard Petty want to go fast? Because it's there.
Why does the middle aged lady with a minivan full of kids want to go slow
in the left hand lane on the Interstate? Because it's there.

>> Put the keyboard away and pull out a bug and enjoy..

No....No....not the bug thread. Not for another 9 months.

*/ Hank Kohl K8DD k8dd@tir.com
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dean Marzocca <n2tnn@ifu.net>
Subject: [2364] Re: How to send CW outside of a straight key.
Message-ID: <320BC77F.4620@ifu.net>

Bob Hirsch wrote:

>
> To my mind -- CW sent from a keyboard should be considered a form of
> RTTY; not CW.
> =====
> 73 de Bob, AA3ON
>
> No Code, No HF....Know Code, Know HF!

RIGHT ON BOB!!!

I'll second that motion

I take my paddles ever where I go. Don't leave home without them.

72, Dean

--

N2TNN's "HAM IT UP" 30 FT Cabin Cruiser via Barnegat Bay, NJ
FN20rm, Somerset, NJ ///10 M MARINEMOBILE///40 M QRP/MARINEMOBILE
MARINEMOBILE/WAS- MA,VA,OH,CT,TN,
NJ-QRP#36,NORCAL#1239,QRP-L#560,QRP-ARCI#9232,Knightlites,CQC

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Frank Forsyth <aa8vn@tir.com>
Subject: [2368] Re: How to send CW outside of a straight key.
Message-ID: <199608100126.VAA27339@tir.com>

At 07:05 PM 8/9/96 -400, Bob Hirsch wrote:

>To my mind -- CW sent from a keyboard should be considered a form of
>RTTY; not CW.

>

>

I thought a computer(keyboard) was just a larger version of my CMOS II/ Curtis
keyer- ragged input in- (processed by a computer chip) - much nicer code
sent out- sort of like typing on a keyboard. (grin)

Frank AA8VN

Frank Forsyth AA8VN Port Huron, Mi.
MORP #1200 NorCal#1204 QRP-L #509
ARCI #8848 G-QRP #8801

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dana Myers <myers@bigboy.West.Sun.COM>
Subject: [2372] Re: How to send CW outside of a straight key.
Message-ID: <Roam.3.0.839629844.9528.myers@bigboy>

Bob, AA30N, wrote:

> To my mind -- CW sent from a keyboard should be considered a form of
> RTTY; not CW.

How come? Must a modem be used to demodulate it? Can't it still be
received by ear, like any other well-sent CW?

What's the issue here, really? Do we have to feel like we're
doing something special in order to enjoy what we do? I don't.
I take a lot of pictures with my fully-manual, bulky Yashica Mat-124G.
I process all of the B&W film myself (TMX, TMY, PXP, for those who care).
I print all of the B&W myself (hours in the darkroom). Why do I do this?
So I can feel like I'm actually doing something most people won't or
can't do? Do I do this because I can take in pride in the fact that I
do it 'the hard way'?

Of course not!! I process my own B&W because I can control the quality

and get results that I'm proud of. If I could trust the photo labs to process my B&W as well as they do my color (PPF), they'd process my film.

I don't use a Morse keyboard - I have the HK-1 paddles and MFJ Econo Keyer II - but that doesn't make someone using a keyboard into a RTTY operator. I don't have to feel special; just communicating, however it is done, is special enough for me.

Dana KK6JQ
Dana@Source.Net

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [2294] Re: HP - The Nerd's Badge of Honor
Message-ID: <Pine.SUN.3.90.960808233014.4174A-1000000@vortex.sage.dri.edu>

On Thu, 8 Aug 1996, M. E. Monninger wrote:

> Warning! Warning! Olde Farte Alert!
>
> Now, when I was in school, it was a nice big Pickett or Deitzgen (sp?) slide
> rule dangling from your belt in a leather case. The more scales, the better,
>

I was up in the top of the clouds with my Post Versalog (sp?) slide rule! And I still have it and the instruction books!

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Tony Fishpool <101573.3220@CompuServe.COM>
Subject: [2298] Re: HP - The Nerd's Badge of Honor
Message-ID: <960809091618_101573.3220_IHK109-1@CompuServe.COM>

I guess this deserves another:-

**** Warning! Warning! Olde Farte Alert! ****

Like Mark AA7TA, it was a slide rule for me at college. At the time in the U.K. you were not allowed to use those new fangled electronic calculators 'cos only rich folks could afford them, and it would give them an unfair advantage (apparently). I seem to remember saving Three pounds 19 shillings and sixpence (no I can't get my head round the old currency now either) to get a Faber Castel jobbie that got me through the four years of college. Every now and then, I use it for calculating, just to astound my sons who have never used log tables either, but it is mostly used now for drawing straight lines!

Sad isn't it?

Tony - G4WIF

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: sholla@panasonic.atlanta.com (Holland, Steve)
Subject: [2299] RE: HP - The Nerd's Badge of Honor
Message-ID: <1996Aug09.061600.1619.40497@ntserver.panasonic.atlanta.com>

Does anyone if anyone still makes good slide rules. I would like to get one. Thanks for any help. 72 de N9HXX/4

Steve N9HXX/4
sholla@panasonic.atlanta.com
QRP-L # 555
NNN00NT-T

From: ku7y[SMTP:ku7y@sage.dri.edu]
Sent: August 09 1996 02:36
Subject: Re: HP - The Nerd's Badge of Honor

On Thu, 8 Aug 1996, M. E. Monninger wrote:

> Warning! Warning! Olde Farte Alert!
>
> Now, when I was in school, it was a nice big Pickett or Deitzgen (sp?)
slide
> rule dangling from your belt in a leather case. The more scales, the
better,
>

I was up in the top of the clouds with my Post Versalog (sp?) slide rule! And I still have it and the instruction books!

cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada.....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [2302] Re: HP - The Nerd's Badge of Honor
Message-ID: <Pine.SOL.3.94.960809081844.26297E-100000@utkux4.utcc.utk.edu>

On Thu, 8 Aug 1996, Monte Stark wrote:

> On Thu, 8 Aug 1996, M. E. Monninger wrote:
> > Now, when I was in school, it was a nice big Pickett or Deitzgen (sp?) slide
> > rule dangling from your belt in a leather case. The more scales, the better,
>
> I was up in the top of the clouds with my Post Versalog (sp?) slide
> rule! And I still have it and the instruction books!
> 73, Ron,

Since this is "can you top this nerd" time, how about modifying slide rules for special functions. Besides the usual collection of linear rules, I had a couple of circular rules--modified one for the law of sines for a 1-station DF fix "computer" (yup, we called them computers back then) for the Air Force 6 months before they removed the UHF direction finders from the control towers (hence, no "suggestion of the month" award for that effort). And the old pilot's nav aid device (senility just stole its name) was nothing more than a circular slide rule. Only problem is that it was hard to find those great leather cases for the circulars. Unlike the calculators we use to find out our QRP power efficiencies, slide rules worked without batteries and in almost complete dark (tube glow was enough to read them). I suspect someone will reinvent the slide rule for its simplicity and reliability, just as someone will have to reinvent CW for the same reasons after it has passed out of regulatory sanction.

-73-
LB, W4RNL

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [2328] Re: HP - The Nerd's Badge of Honor
Message-ID: <Pine.SUN.3.90.960809100353.4816C-100000@vortex.sage.dri.edu>

LB,

Ammmmmm, I can see it coming.....a QRP contest.....homebrew.....
home design.....bonus points for using a slip stick.....more points
for using one of the circular jobs.....more yet for doing all calculations
at night by the light of an 866..... :-)

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17...ARS #49...NorCal #330.....NRA LIFE.....

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [2355] Re: HP - The Nerd's Badge of Honor
Message-ID: <2.2.32.19960809214126.00aa43f4@public.compusult.nf.ca>

Hi Mike,

Au Contraire - from what I read it seems that the "hot ticket" to a college
social life today is to be a TN - techno nerd. The word is out that if you
want to capture a spouse who will one day be rich and famous (like Mr. Bill)
then look for a TN.

Now granted if YOU think you can strap on one of those old slide rules or
HP41 to YOUR belt and think your "in" - well forget it - maybe your spouse
needs to wack you over the head with that sliderule.

QRP related news - None - hey it's summer time.

Have fun 73/72 Bob VO1DRB/WA6ERB

At 21:46 8/8/96 -0400, you wrote:

>Howdy All

> Please pardon the slight political incorrectness, but carrying
>a high powered box like a 41 did not help as a 'babe attractor..'

>

>Anyway, back to QRP related stuff and off the soapbox.

>

>73 de AA9IL

>Mike Kana

>

>

>

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-----
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@nfld.com |
| Compuserve:   70466.1405@compuserve.com |
|-----
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From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996

From: WJ4PRandy@aol.com

Subject: [2350] Re: HW7 Mods

Message-ID: <960809172301_175283217@emout16.mail.aol.com>

Hi Paul,

What I have been planning to do, since there
is a lot of interest from this group, is to publish
(as e-mail primarily) the mods and how they
are accomplished.

Some mods are mechanical, like the rubber grommets
on the preselector cap and a "better" power connector,
and some are basic electrical like putting a three lead
regulator in to stabilize the vfo transistors' voltage.
I made a receiver board that will fit on the side of the
case adjacent to the rcvr section that is based on the
ne602. I was going to "provide" a small quantity of these
boards to folks on the list that would put them to use
right away and provide feed-back for improvements. After
that, I was going to do a magazine/newsletter article that
would supply the layout for the pcb...etc... there is a
"volunteer" to help with that part already.

The basic rcvr circuit is based on any number of ne602 plans,
the 40-9er is an example. I used the QRP Handbook from Doug
Demaw (ARRL) for some input and also the handbook put out by
NA5N. (The "Neophyte rcvr" is in the ARRL book)

So, watch the list for "HW7 Mods Part 1, 2,...etc" and let me know if you want to try out one of the rcvr pcb's I'll be passing out. It has an audio filter tailored to 700Hz, an LM386 amp, and the FET muting circuit and sidetone oscillator.

73, Randy WJ4P

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Jim Hunter <jhunter@sunrise.alpinet.net>
Subject: [2349] Re: INDEX LABS GONE??
Message-ID: <Pine.SOL.3.91.960809151307.15145A-100000@sunrise.alpinet.net>

I have found that a phone call works the best!!!

Just sent my qrp+ back for the 4th time ---- also enclosed a letter asking for my money back ---- will have to see---- good rig when it worked --- problem is it doesn't work that much!!!!

their phone number is 1-206-851-5725

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "John Mouw" <mouw@innet.com>
Subject: [2308] Re: IS THERE LIFE ON 80M ?
Message-ID: <199608091351.JAA30341@lucky.innet.com>

There is a group on 3945 from Florida you might want to check out. After 7PM ur time.

73 John

> From: David Kreinberg <kreinbd@ccgate.dl.nec.com>
> To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
> Subject: IS THERE LIFE ON 80M ?
> Date: Thursday, August 08, 1996 2:22 PM
>
>
> Gang:
>
> The heck with life on Mars, I want to know if
> there's life on 80 meters??
>
> The family will be taking a vacation in a few
> weeks, and I will be staying behind to work (joy).

>
> I wanted to take advantage of my free evening and
> weekend hours to construct an antenna to let me
> play on 80 meters. 80 is currently the only band
> which I've never been on.
>
> Well the other evening, I listened in on 80. Not
> much going on in the CW portion (lots of QRN), so
> I go up to listen in on phone. I think it's been
> mentioned here before that 75/80 phone is filled
> with poison and horrible ops. I may be a bit naive,
> but I couldn't believe the swearing and truly
> bad operators there. How do they get away with this?
>
> Anyway, before I spend some bucks and invest blood
> (I have a wasp nest somewhere in my yard), sweat
> (it's still mighty hot here in Texas), and tears
> (wasps again), I wanted to get an opinion of what
> folks think of 75/80.
>
> Is this band worth my time? Are there still good
> ops to be found here. I wish we had a neat net
> like the Knightlites. They sound like a first class
> group.
>
> Thanks for your thoughts!
>
> 73 de Dave AC5GY
>

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Bill C." <wrc@tir.com>
Subject: [2337] Re: IS THERE LIFE ON 80M ?
Message-ID: <320BB036.526B@tir.com>

Hi Dave,

There is life on 80! There is even civilized life on 75... to help offset the shameful things you found there. You'll find traffic nets up and down from 3.600 on cw. Those can be a lot of fun and they'll welcome any check-ins.

When you find out where that hornets nest is go out at night and spray it good with your garden hose. They'll leave and build a nest where it doesn't rain.

Bill KU8H

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Bill C." <wrc@tir.com>
Subject: [2341] Re: IS THERE LIFE ON 80M ?
Message-ID: <320BB965.6B7D@tir.com>

Dana Myers wrote:

>
> > Hi Dave,
> >
> > There is life on 80! There is even civilized life on 75... to help offset
> > the shameful things you found there. You'll find traffic nets up and down
> > from 3.600 on cw. Those can be a lot of fun and they'll welcome any
> > check-ins.
> >
> > When you find out where that hornets nest is go out at night and spray it
> > good with your garden hose. They'll leave and build a nest where it
> > doesn't rain.
> >
> > Bill KU8H
>
> Hi Bill -
>
> This looks like a personal reply to a note on the qrp-list; do you really
> intend to send it to the entire list?
>
> take care!
> Dana KK6JQ
> Dana@Source.NetYes Dana,

There are probably some others who would like to know a good way to deal with hornets (wasps and bees nests). I feel that most responses should be public to include all interested parties... the reason for having the list... IMO.

Thanks for your concern and 73,

Bill KU8H

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: n6mve@juno.com (mike wood)
Subject: [2351] Re: KC2 not "automatic fit" for Cascade? exCUSE me!
Message-ID: <19960809.144045.7247.1.N6MVE@juno.com>

Hi Wayne,

Your note regarding the intent of field testing was well crafted but totally unnecessary. I am well aware of the normal procedures in beta testing and I know how the club projects work. Your crack about appliance operators was testy at best.

Due to time constraints at this end I don't have the time to trouble shoot the installation of the KC2 into a Cascade. As I read the assembly instructions it was clear that the unit WAS A AUTO FIT into a Sierra. More work would be necessary for the installation into my Cascade. Thus my decision to let somebody else have the unit.

If you get this worked up every time somebody decides to sell a norcal kit for what ever reason, you are destined for LONG periods of time in front of a key board.

As a philosophy instructor used to tell us in college, Chill Out, It's not brain surgery.

73, mike

On Thu, 8 Aug 1996 19:44:02 -0800 svecbrdk@well.com (L.Svec, W.Burdick) writes:

>A KC2 field-test kit buyer wrote:

>

>>I have decided to sell my KC2 keyer kit as it isn't a automatic
>>fit for the Cascade rig it was intended for.

>

>Question: Does "intended" = "automatic"?? Not!

>

>Folks, I apologize if I (or Doug, for that matter) gave anyone the
>impression that the KC2 was an "automatic fit" for anything. If we
>did, it

>would be false advertising. But since we didn't say anything of the
>kind,

>I'll assume it's a misconception that needs to be cleared up.

>

>Yes, we intended it for the Sierra and Cascade, and it *can* be
>installed

>in a Cascade with a small amount of effort. I engaged Dave Meacham on
>the

>phone for quite a while to make sure that the KC2 would fit and that
>all

>the necessary signals were either there or could be derived with a
>small
>amount of interface hardware. We will immediately incorporate any new
>details on the installation back into the KC2 manual, as well as post
>them
>to QRP-L.
>
>I respect anyones' decision to sell his KC2, but just in case it isn't
>perfectly clear: the KC2 WILL work with the Cascade, and I will
>personally
>help anyone who has trouble, as I have done with the '40A and Sierra
>field
>tests in the past. (I didn't design the Cascade; if you encounter an
>esoteric problem that I can't handle I'll find someone else who can.)
>
>
>HOW NORCAL CLUB PROJECTS WORK
>
>A few pointers for the benefit of those who design or buy NorCal field
>test
>kits in the future:
>
> - Nothing is ever "automatic" with built-in accessories;
> some work has to be done to connect them. If people have
> trouble, we solve the problems via e-mail or QRPp and move on.
> Let's save "automatic" to mean "you don't have to do anything,"
> which is useful for the appliance operators of the world.
>
> - With few exceptions, NorCal members and others on this
> list take satisfaction in building and installing these devices.
> Widening toroids, machining panels, and waiting for manual
> corrections are facts of life.
>
> - This is one of the foundations that NorCal was built on:
>
> good ideas may become club projects;
> club projects get kitted for field test;
> the field test generates data that the designer(s) can use
> to improve the device and its documentation;
> if all goes well, a second run of the kits may be made
> available from either NorCal or a commercial supplier.
>
>
>To take one example: hundreds of letters, phone calls and e-mails
>transpired between the original prototype NC40 kits and the third
>generation re-design, the Wilderness Radio re-design NorCal 40A. This
>is
>part of the fun and challenge of homebrew. A field-test kit is not a

>Heathkit.
>
>On top of that, many people build these kits who have had *zero*
>experience. Club members help each other out, and we all learn more
>electronics in the process.
>
>Hope this clears up the intent of the KC2 field test in case anyone
>else
>was wondering.
>
>
>73,
>Wayne
>N6KR
>
>
>
>

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [2356] Re: New nerd badge of honor
Message-ID: <2.2.32.19960809214128.00aa3068@public.compuserve.nf.ca>

Adam,

The TI don't count - they didn't have Reverse Polish Notation - once you
used one there is no turning back. It's like learning CPM, Unix or Wordstar...

So there - let's see a "nerd one up" on that.

Caio Bob V01DRB/WA6ERB

At 09:07 8/9/96 -0400, you wrote:

>Beat this,guys
>TI-92 (yes, 92) calculator
>
>--
>Adam O'Donnell, N3RCS

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| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRP'er Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet:      rgobrick@nfld.com |
| Compuserve:   70466.1405@compuserve.com |
|-----
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From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Mark Carter <mcarter@freenet.npiec.on.ca>
Subject: [2378] Re: NorCal WWW Page
Message-ID: <Pine.SGI.3.93.960809225039.17599B-1000000@freenet.npiec.on.ca>

On Fri, 9 Aug 1996, Dan Hogan wrote:

> What HTML is the NorCal page written with? When I go there All I see is a
> blank yellow page, I can see the home page. Using Internet Chameleon.

I have the same problem. Using I-Comm, all I get is a blank screen when it connects. However, using Lynx, I can get everything, but unfortunately Lynx is text-only.

I think we're victims of the lack of HTML standards. People do up their home pages using all kinds of nifty features, not realizing they only work with one or two browsers. :-(

Mark

*** Carter Computer Solutions Voice/Fax: 934-1413 ***
*** Sharp Cash Registers and Hospitality Systems ***
*** Service - Sales - Point of Sale - Networking ***
*** Gopher freenet.npiec.on.ca Menu: 4,4,10,4 ***

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: JDuffy@aol.com
Subject: [2306] Re: RF Safety
Message-ID: <960809092914_380791967@emout14.mail.aol.com>

It's just Bill Clinton's big government trying to AGAIN interfere with our lives and trying to protect us from ourselves.

To Bill Clinton and his government:

Stay the hell out of our lives and stay the hell out of amateur radio!

Regards,

Duffy - WB8NUT

P.S. - Anybody But Clinton (ABC) in '96

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "David P. Drake" <dpd@dtpx2.ncifcrf.gov>
Subject: [2320] Re: rpn calculators
Message-ID: <19960809112542dpd@dtpsys.ncifcrf.gov>

Last time I didn't use a RPN calculator I punched in the first number and spent five minutes looking for the enter key. :)

73 de n3lsb Dave.
QRP-1 # 317
dpd@dtpx2.ncifcrf.gov

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Phil, AC6LS" <ac6ls@amsat.org>
Subject: [2297] re:RPN Calculators....THANKS
Message-ID: <320B01C0.43FA@amsat.org>

Wow, just like the dinner bell, the word RPN brought out a WHOLE mess of TN's!

I have been overwhelmed with the resonse, those that made offers or the like will get a personal response. but to ALL, a hearty

Thanks for the replys.

73 de Phil

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Bill C." <wrc@tir.com>
Subject: [2342] Re: Slide Rules
Message-ID: <320BB9DC.62D6@tir.com>

Thom,

Fingers and toes!!

Bill KU8H

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
Subject: [2344] Re: Slide Rules
Message-ID: <Pine.SOL.3.94.960809162053.239I-100000@utkux4.utcc.utk.edu>

On 9 Aug 1996, Thom LaCosta wrote:>
> "Ed Manuel" wrote in a message to All:
>
> "M"> Did the entire presentation with a slide rule (K&E Decilon - there)
>
> you mean there are ways other than a rule?
> Hmmm

As a rule, there are no other ways.

-73-

LB, W4RNL
(Should send this anonymously)

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Dana Myers <myers@bigboy.West.Sun.COM>
Subject: [2346] Re: Slide Rules
Message-ID: <Roam.3.0.839612431.8979.myers@bigboy>

>
> "Bill C." wrote in a message to All:
>
> "C"> From: "Bill C." <wrc@tir.com>
> "C"> Thom,
> "C"> Fingers and toes!!
>
> Oh yes, that number base...I am also familiar with the one that allows for
> counting up to 21.

It seems we've suspended the QRP-L charter yet again, so, what the heck,
I can play, too.

Simply using 10 fingers, one can count to 1024 (or represent numbers from
0 to 1023). Using toes extends this to over 1 million, but I suspect that
this would be a little too unwieldy for even the most dedicated...

Dana KK6JQ
Dana@Source.Net

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "Robert J. Gobrick" <rgobrick@nfld.com>
Subject: [2357] Re: Slide Rules
Message-ID: <2.2.32.19960809214130.00aaebd0@public.compusult.nf.ca>

Geez Ed,

Not sure if you dazzled them with your electronic ability of not being able to fix your TI or replace the batteries in your HP :^) - hey what ever works - hi.

At 14:16 8/9/96 UT, you wrote:

> The old reliable TI is on the blink. The old HP is dead.

>

>Did the entire presentation with a slide rule (K&E Decilon - there) and amazed
>the newbies. Not only did I HAVE one, and know how to use it, I acted as if
>it was a normal way to do math. It was fun :-)

>

>Ed, N5EM

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-----
| Bob Gobrick - VO1DRB/WA6ERB/VE2DRB - Newfoundland, Canada |
| QRPPer Galore - QRP ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet: rgobrick@nfld.com |
| Compuserve: 70466.1405@compuserve.com |
|-----
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From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: Hank Kohl <k8dd@tir.com>
Subject: [2359] Re: Slide Rules
Message-ID: <199608092257.SAA07868@tir.com>

At 13:40 08/09/96 -0400, you wrote:

>>

>> "Bill C." wrote in a message to All:

>>

>> "C"> From: "Bill C." <wrc@tir.com>

>> "C"> Thom,

>> "C"> Fingers and toes!!

>>
>> Oh yes, that number base...I am also familiar with the one that allows for
>> counting up to 21.
>
>
>It seems we've suspended the QRP-L charter yet again, so, what the heck,
>I can play, too.
>
>Simply using 10 fingers, one can count to 1024 (or represent numbers from
>0 to 1023). Using toes extends this to over 1 million, but I suspect that
>this would be a little too unwieldy for even the most dedicated...
>
>Dana KK6JQ
>Dana@Source.Net
>

BUT.....I've never much got past the lonely 4 bit, and if I did the single 128
bit got me. And if I managed to sneak past both the 4 and 128 bits the count
of 132 always got me.

"Who was that masked man?"

"Hi Yo Subnet....."

*/ Hank Kohl K8DD k8dd@tir.com
*/ MI-QRP - Vice Pres. QRP-ARCI - Director
*/ G-QRP ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-l@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: George Gingell <k3tks@u1.abs.net>
Subject: [2324] Re: Ten-Tec Junkie ?
Message-ID: <Pine.BSI.3.93.960809115058.25020C-1000000@u1.abs.net>

No, They are stashed in an old cigar box. I have some blueprint (Xeroxed)
plans that I got from Ten-Tec quite some time back. I have a folder with
most of that stuff filed away somewhere. I am right in the middle of a
major renovation of my basement at the moment. I hope to get things where
I can find them again by the end of summer :^).
Maybe you should post the question to QRP-L. I know for a fact that there
are other (Major Ten-Tec A members) in the closet. :^).
I would love to see what you do with the modules. Don't forget that the
QRP Quarterly and QRPP are always looking for articles and Photos on QRP
and Homebrew Projects. Come to think of it, I don't recall much in the

way of Modifications, etc for the Ten-Tec MR1, PM series of rigs. Not much on the Argonauts either for that matter. When I get some spare time :^) I would like to start a collection of Mods and Tips for Ten-Tec Stuff. If anyone has already done it, I would like to hear from them.

QRP DX TU (C) 1986 G.Danny Gingell, K3TKS@abs.net

On Fri, 9 Aug 1996, David Feldman wrote:

> Are your MR-1 modules built up into the MR-1 radio? I have accumulated
> the MR-1 modules over time, but haven't decided how to package them
> (altho I do have some of the original suggested layout sketches from
> ten-tec circa 1969).
>
> Dave
>

From owner-qrp-1@Lehigh.EDU Fri Aug 9 23:12:59 1996
From: "John Kirk, VE6XT" <jakirk@freenet.calgary.ab.ca>
Subject: [2367] Re: Wire Slinging via Bow & Arrow
Message-ID: <Pine.A32.3.92.960809183324.43282B-100000@srv1.freenet.calgary.ab.ca>

Hi:

Be careful if you choose to use this method!

I once attempted to put a wire over a small tree in my front yard via a high trajectory shot with a light bow. Much to my horror, the wire came off the arrow at T - 0.25 seconds. I was counting on the wire to limit the arrow's travel. Time passes incredibly slowly while you calculate the trajectory of the arrow versus the proximity of the city bus parked on the corner. Fortunately, the driver pulled away just in time to avoid an arrow in the posterior of his vehicle, but I can't help but think how differently the story might have turned out. Unfriendly natives?

73

John